Greenet

The network of Horizon Europe Cluster 5 National Contact Point.





STAM S.r.l. | Horizon Europe Cluster 5 Entity profile & project idea

GREENET Brokerage Event

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The GREENET project has received funding from the EU Horizon Europe programme under Grant Agreement No 101069604

STAM at a glance

Private Italian SME delivering engineering, innovation and consulting services

- Headquarters in **Genova (Italy)**, offices across Italy and a representative office in **Brussels**
- Six business areas: Energy & Environment, Industry & Automation, Security & Transport, Space & Defence, Open Innovation, R&D Services
- Active in EU R&I programmes as **coordinator and technical partner** (Horizon 2020, Horizon Europe)
- **Energy & Sustainability area:** industrial decarbonisation, waste heat recovery & thermal storage, energy flexibility, digital twins & AI-based energy management, LCA/LCC & circularity, exploitation and business models

20+
years of R&D services

60+
H2020 & Horizon Europe projects

500+
organisations in our Open Innovation network

Selected energy projects: FLEXIndustries · FLEX4FACT · RE-WITCH · HYSTORE · AVANGUARD · FLEXI-Build · PROBONO

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Our interests in Horizon Europe Cluster 5

Destination 3 – Sustainable, secure and competitive energy supply	
HORIZON-CL5-2027-02-D3-10	Renewable Energy Valleys in Africa to increase energy security and energy access in Africa
HORIZON-CL5-2027-02-D3-24	Large scale operational validation and upscaling of state-of-the-art (Generative) AI tools and models powering a next generation digital energy system
HORIZON-CL5-2027-07-D3-17	PV based electrification of the economy: Designing & optimising PV systems supporting industrial electrification and promoting participation in electricity markets (EUPI-PV Partnership)
HORIZON-CL5-2027-07-D3-27	Integrated Approaches for Retrofitting Infrastructures with Innovative Energy Storage Technologies
Destination 4 – Efficient, sustainable and inclusive energy use	
HORIZON-CL5-2027-05-D4-05	On-site robotic and automated techniques for building renovation and new construction
HORIZON-CL5-2027-05-D4-06	Thermal energy optimisation and waste heat recovery of high energy demand IT rooms in buildings or small edge data centres
HORIZON-CL5-2027-05-D4-07	Integrating circularity in LCA-based modelling frameworks for renovation of buildings (Built4People Partnership)
HORIZON-CL5-2027-05-D4-09	Demonstration of industrial excess/waste heat conversion to mechanical or electrical power ► **next slide**
Destination 5 – Clean and competitive solutions for all transport modes	
HORIZON-CL5-2027-03-D5-03	Data-driven circular economy for e-mobility ecosystem (2ZERO Partnership)

Project idea: waste heat to power

HORIZON-CL5-2027-05-D4-09 **Demonstration of industrial excess/waste heat conversion to mechanical or electrical power**

Innovation Action · TRL 7–8 · lump sum · EUR 6.75 M per project · deadline 15 September 2027

Heat sources

Boot injection moulding presses:

- Screw/barrel (process at 220–250 °C)
- Hydraulic oil circuits
- Mould cooling water circuits

Your solution

Recovery of dispersed heat and conversion to electrical or mechanical power, possibly combined with thermal storage

On-site use

Plant power + continuous heat demand, today electric:

- Pad-printing: 80 °C, 3 shifts
- Thermoforming: 100 °C, 2 shifts

Today: *no heat recovery in place (only loss reduction near the screw); hot-zone and fluid temperatures can be measured on site.*

What we are looking for

- Technology providers with heat-to-power solutions ready for industrial demonstration (TRL 7–8)
- Able to exploit heat from moulding barrels, hydraulic oil and mould cooling circuits
- Open to integration with the on-site 80–100 °C heat demand and/or storage

What we offer

- STAM is available to coordinate the proposal
- A footwear manufacturer as demo site, with continuous multi-shift operation
- Energy engineering, monitoring, LCA/LCC, business models and replication

Let's get in touch

Riccardo Capolla

Organisation
STAM S.r.l. – private SME (engineering, innovation & consulting)

Country
Italy – HQ in Genova, representative office in Brussels

Department
Energy & Sustainability business area

Expertise
Industrial decarbonisation, energy systems & storage, waste heat recovery, LCA & circularity, EU R&I project design and coordination

Contact

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Happy to meet at the brokerage event to discuss D4-09 or any of the Cluster 5 topics above.